

CLAIMS

What is claimed is:

1. A fuel injector cleaner injection device, for use with
5 automobiles having a fuel tank, an engine having a fuel
injection system, and a fuel line extending from the fuel
tank to the fuel injection system, comprising:

10 a main housing defining an interior volume, the main
housing having a first side and a second side, a fuel in port
located at the first side for connection to the fuel line
extending from the fuel tank, and a fuel out port located at
the second side for connection to the fuel line extending to
the engine, the housing further having a cleaner in port;

15 a first mechanical filter located within the main
housing adjacent to the first side directly in front of the
fuel in port so that fuel from the fuel in port must flow
through the first mechanical filter;

20 a second mechanical filter located within the main
housing adjacent to the second side directly in front of the
fuel out port, a mid region located between the first
mechanical filter and second mechanical filter, wherein fuel
from the mid region must flow through the second mechanical
filter to reach the fuel out port; and

25 a reservoir of fuel injector cleaner, the reservoir in
communication with the cleaner in port for supplying fuel
injector cleaner into the mid region for mixing with gasoline
flowing from the fuel in port to the fuel out port.

2. The fuel injector cleaner injection device as recited in claim 1, further comprising an adjustment valve interposed between the reservoir and cleaner in port, for controlling the flow of fuel injector cleaner into the mid region of the housing.

3. The fuel injector cleaner injection device as recited in claim 2, wherein fuel in port has a fuel in port nipple and the fuel out port has a fuel out port nipple to facilitate in-line attachment of the fuel injector cleaner injection device to a severed fuel line.

4. The fuel injector cleaner injection device as recited in claim 3, wherein the housing has a bottom wall extending substantially perpendicular to and between the first and second side walls, and wherein the cleaner in port extends through from the bottom wall upwardly into the fuel stream between the first mechanical filter and second mechanical filter.

5. A fuel injector cleaner injection device, for use with automobiles having a fuel tank, an engine having a fuel injection system, and a fuel line extending from the fuel tank to the fuel injection system severed into two portions, comprising:

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a main housing defining an interior volume, the main housing having a first side, an opposite second side, and a bottom wall extending between the first side and second side, a fuel in port located at the first side and having a fuel in port nipple for connection to the portion of the fuel line extending from the fuel tank, and a fuel out port located at the second side having a fuel out port nipple for connection to the fuel line extending to the engine, the housing further having a cleaner in port extending into the interior volume upward from the bottom wall; and

a reservoir of fuel injector cleaner, the reservoir in communication with the cleaner in port for supplying fuel injector cleaner into the interior volume for mixing with fuel flowing from the fuel in port to the fuel out port.

6. The fuel injector cleaner injection device as recited in claim 5, further comprising an adjustment valve, interposed between the reservoir and the cleaner in port for controlling the flow of fuel injector cleaner into the interior volume.

7. The fuel injector cleaner as recited in claim 6, further comprising a first mechanical filter located within the main housing adjacent to the first side directly in front of the fuel in port so that fuel from the fuel in port must flow through the first mechanical filter.

8. The fuel injector cleaner as recited in claim 7, further comprising a second mechanical filter located within the main housing adjacent to the second side directly in front of the fuel out port, a mid region located between the first

5 mechanical filter and second mechanical filter, the cleaner in port located in the mid region, wherein fuel from the mid region must flow through the second mechanical filter to reach the fuel out port.

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